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1   Image retrieval: Ideas, influences, and trends of the new age
    Ritendra Datta, Dhiraj Joshi, Jia Li, James Z. Wang
    April 2008 ACM Computing Surveys (CSUR),   Volume 40 Issue 2
    Publisher: ACM
    Full text available: 📄 Pdf (2.81 MB)   Additional Information: full citation, abstract, references, index terms

    Bibliometrics: Downloads (6 Weeks): 482, Downloads (12 Months): 1801, Citation Count: 2
        We have witnessed great interest and a wealth of promise in content-based image retrieval
        as an emerging technology. While the last decade laid foundation to such promise, it also
        paved the way for a large number of new techniques and systems, got many ...

        Keywords: Content-based image retrieval, annotation, learning, modeling, tagging

2   CLAIRE: A modular support vector image indexing and classification system
    Chih-Fong Tsai, Ken McGarry, John Tait
    July 2006 ACM Transactions on Information Systems (TOIS),   Volume 24 Issue 3
    Publisher: ACM
    Full text available: 📄 Pdf (1.60 MB)   Additional Information: full citation, abstract, references, index terms

    Bibliometrics: Downloads (6 Weeks): 17, Downloads (12 Months): 206, Citation Count: 0
        Many users of image retrieval systems would prefer to express initial queries using
        keywords. However, manual keyword indexing is very time-consuming. Therefore, a
        content-based image retrieval system which can automatically assign keywords to images ...

        Keywords: Content-based image retrieval, image classification, image indexing, multiple
        classifier systems, support vector machines

3   Content-based image retrieval: approaches and trends of the new age
    Ritendra Datta, Jia Li, James Z. Wang
    November 2005 MIR '05: Proceedings of the 7th ACM SIGMM international workshop on
                     Multimedia information retrieval
    Publisher: ACM
    Full text available: 📄 Pdf (467.64 KB)   Additional Information: full citation, abstract, references, cited by, index
                                                                         terms

    Bibliometrics: Downloads (6 Weeks): 108, Downloads (12 Months): 728, Citation Count: 14

The last decade has witnessed great interest in research on content-based image retrieval. This has paved the way for a large number of new techniques and systems, and a growing interest in associated fields to support such systems. Likewise, digital ...

Keywords: annotation, content-based image retrieval

4 Face recognition: A literature survey
W. Zhao, R. Chellappa, P. J. Phillips, A. Rosenfeld
December 2003 ACM Computing Surveys (CSUR), Volume 35 Issue 4
Publisher: ACM

Full text available: Pdf (4.28 MB)   Additional Information: full citation, abstract, references, cited by, index terms

Bibliometrics: Downloads (6 Weeks): 599, Downloads (12 Months): 3425, Citation Count: 79

As one of the most successful applications of image analysis and understanding, face recognition has recently received significant attention, especially during the past several years. At least two reasons account for this trend: the first is the wide ...

Keywords: Face recognition, person identification

5 Comparison of two approaches to building a vertical search tool: a case study in the nanotechnology domain
Michael Chau, Hsinchun Chen, Jialun Qin, Yilu Zhou, Yi Qin, Wai-Ki Sung, Daniel McDonald
July 2002 JCDL '02: Proceedings of the 2nd ACM/IEEE-CS joint conference on Digital libraries
Publisher: ACM

Full text available: Pdf (859.29 KB)   Additional Information: full citation, abstract, references, cited by, index terms

Bibliometrics: Downloads (6 Weeks): 17, Downloads (12 Months): 82, Citation Count: 7

As the Web has been growing exponentially, it has become increasingly difficult to search for desired information. In recent years, many domain-specific (vertical) search tools have been developed to serve the information needs of specific fields. This ...

Keywords: indexing, information retrieval, internet searching and browsing, internet spider, noun-phrasing, personalization, post-retrieval analysis, self-organizing map, summarization, vertical search engine, web search engine

6 Feature-based similarity search in 3D object databases
Benjamin Bustos, Daniel A. Keim, Dietmar Saupe, Tobias Schreck, Dejan V. Vranić
December 2005 ACM Computing Surveys (CSUR), Volume 37 Issue 4
Publisher: ACM

Full text available: Pdf (5.29 MB)   Additional Information: full citation, abstract, references, cited by, index terms

Bibliometrics: Downloads (6 Weeks): 82, Downloads (12 Months): 630, Citation Count: 6

The development of effective content-based multimedia search systems is an important research issue due to the growing amount of digital audio-visual information. In the case of images and video, the growth of digital data has been observed since the ...

Keywords: 3D model retrieval, content-based similarity search

7

Data clustering: a review
A. K. Jain, M. N. Murty, P. J. Flynn
September 1999 ACM Computing Surveys (CSUR), Volume 31 Issue 3
Publisher: ACM

Full text available: Pdf (636.24 KB)   Additional Information: full citation, abstract, references, cited by, index terms, review

Bibliometrics: Downloads (6 Weeks): 403, Downloads (12 Months): 3295, Citation Count: 341

Clustering is the unsupervised classification of patterns (observations, data items, or feature vectors) into groups (clusters). The clustering problem has been addressed in many contexts and by researchers in many disciplines; this reflects its broad ...

Keywords: cluster analysis, clustering applications, exploratory data analysis, incremental clustering, similarity indices, unsupervised learning

8   Targeted filter evolution for improved image reconstruction resolution
Michael R. Peterson, Gary B. Lamont, Frank Moore, Patrick Marshall
July 2007   GECCO '07: Proceedings of the 9th annual conference on Genetic and evolutionary computation
Publisher: ACM

Full text available: Pdf (1.44 MB)   Additional Information: full citation, abstract, references, index terms

Bibliometrics: Downloads (6 Weeks): 8, Downloads (12 Months): 68, Citation Count: 1

Government, commercial, scientific, and defense applications inimage processing often require transmission of large amounts of data across bandwidth-limited channels. Applications require robust transforms simultaneously minimizing bandwidth requirements ...

Keywords: genetic algorithms, image processing, wavelets

9   Personalized spiders for web search and analysis
Michael Chau, Daniel Zeng, Hinchun Chen
January 2001 JCDL '01: Proceedings of the 1st ACM/IEEE-CS joint conference on Digital libraries
Publisher: ACM

Full text available: Pdf (672.04 KB)   Additional Information: full citation, abstract, references, cited by, index terms

Bibliometrics: Downloads (6 Weeks): 21, Downloads (12 Months): 154, Citation Count: 11

Searching for useful information on the World Wide Web has become incr easingly difficult. While Internet search engines have been helping people to search on the web, low recall rate and outdated indexes have become more and more problematic as the ...

Keywords: information retrieval, internet searching and browsing, internet spider, noun-phrasing, personalization, self-organizing map

10 Visual islands: intuitive browsing of visual search results
Eric Zavesky, Shih-Fu Chang, Cheng-Chih Yang
July 2008   CIVR '08: Proceedings of the 2008 international conference on Content-based image and video retrieval
Publisher: ACM

Full text available: Pdf (2.25 MB)   Additional Information: full citation, abstract, references, index terms

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search by color histogram
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1 <u>Visual attention detection in video sequences using spatiotemporal cues</u>

Yun Zhai, Mubarak Shah
October 2006 MULTIMEDIA '06: Proceedings of the 14th annual ACM international conference on
         Multimedia
Publisher: ACM
Full text available: 📄 Pdf (1.77 MB)   Additional Information: full citation, abstract, references, index terms

Bibliometrics: Downloads (6 Weeks): 19, Downloads (12 Months): 163, Citation Count: 3

> Human vision system actively seeks interesting regions in images to reduce the search effort in
> such as object detection and recognition. Similarly, prominent actions in video sequences are m
> likely to attract our first sight than their surrounding ...

> Keywords: spatiotemporal saliency map, video attention detection

2 <u>An XQuery engine for digital library systems</u>

Ji-Hoon Kang, Chul-Soo Kim, Eun-Jeong Ko
May 2003   JCDL '03: Proceedings of the 3rd ACM/IEEE-CS joint conference on Digital libraries
Publisher: IEEE Computer Society
Full text available: 📄 Pdf (167.52 KB)   Additional Information: full citation, abstract, cited by, index terms

Bibliometrics: Downloads (6 Weeks): 4, Downloads (12 Months): 39, Citation Count: 2

> XML is now a standard markup language for web information. Many application areas are produc
> XML documents on the web. This situation urges digital library systems to deal with not only typ
> text documents but also XML documents. XML documents ...

> Keywords: XML, XQuery, digital library system, information retrieval

3 <u>Topological mapping: a dimensionality reduction method for efficient video search</u>

Zaher Aghbari, Kunihiko Kaneko, Akifumi Makinouchi
March 2002 SAC '02: Proceedings of the 2002 ACM symposium on Applied computing
Publisher: ACM
Full text available: 📄 Pdf (573.08 KB)   Additional Information: full citation, abstract, references, index terms

Bibliometrics: Downloads (6 Weeks): 0, Downloads (12 Months): 14, Citation Count: 0

> In this paper, we present a novel approach for efficient search of shots by the colors of objects t
> exist in the wanted shots. The idea is to map the color histogram, which represents the color co

of each object in the shot from the high-dimensional ...

4   Classification of human actions using face and hands detection
    Hitoshi Ikeda, Masahiro Maeda, Noriji Kato, Hirotsugu Kashimura
    October 2004 MULTIMEDIA '04: Proceedings of the 12th annual ACM international conference on
              Multimedia
    Publisher: ACM
    Full text available: Pdf (988.23 KB)   Additional Information: full citation, abstract, references, cited by, index term

    Bibliometrics: Downloads (6 Weeks): 9,   Downloads (12 Months): 57,   Citation Count: 2

       In this paper, we describe a novel classification technique that separates video scenes, like offic
       tasks, into several scenes according to each task. Even if the difference of as a whole image frar
       frame in each task is small, the difference ...

       Keywords: classification, face detection, hand detection, hierarchical clustering, video

5   Fuzzy color quantization and its application to scene change detection
    Fu-lai Chung, Benny Y. M. Fung
    November 2003 MIR '03: Proceedings of the 5th ACM SIGMM international workshop on Multimedia
              information retrieval
    Publisher: ACM
    Full text available: Pdf (447.67 KB)   Additional Information: full citation, abstract, references, index terms

    Bibliometrics: Downloads (6 Weeks): 2,   Downloads (12 Months): 63,   Citation Count: 0

       It is both impractical and unnecessary to use true color, i.e., 24-bit colors, for most multimedia
       processing tasks since the computational complexity is extremely high and adjacent colors in th
       model do not contribute much to visual and computational ...

       Keywords: color histogram, color quantization, scene change detection, video shot

6   On clustering and retrieval of video shots
    Chong-Wah Ngo, Ting-Chuen Pong, Hong-Jiang Zhang
    October 2001 MULTIMEDIA '01: Proceedings of the ninth ACM international conference on Multime
    Publisher: ACM
    Full text available: Pdf (17.79 MB)   Additional Information: full citation, abstract, references, cited by, index tern

    Bibliometrics: Downloads (6 Weeks): 8,   Downloads (12 Months): 70,   Citation Count: 7

       Clustering of video data is an important issue in video abstraction, browsing and retrieval. In thi
       paper, we propose a two-level hierarchical clustering approach by aggregating shots with similar
       motion and color features. Motion features are computed ...

       Keywords: hierarchical clustering, motion and color retrieval, team classification

7   Similarity queries in the DISIMA image DBMS
    Vincent Oria, M. Tamer Özsu, Shu Lin, Paul J. Iglinski
    October 2001 MULTIMEDIA '01: Proceedings of the ninth ACM international conference on Multime
    Publisher: ACM
    Full text available: Pdf (1.48 MB)   Additional Information: full citation, abstract, references, cited by, index tern

    Bibliometrics: Downloads (6 Weeks): 1,   Downloads (12 Months): 21,   Citation Count: 1

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search with self organizing map and color histogram
Terms used: search with self organizing map color histogram

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1   A survey on wavelet applications in data mining   Ad
◆   Tao Li, Qi Li, Shenghuo Zhu, Mitsunori Ogihara
    December 2002 ACM SIGKDD Explorations Newsletter, Volume 4 Issue 2
    Publisher: ACM   R
    Full text available: 📄 Pdf (330.06 KB)   Additional Information: full citation, abstract, references, cited by   A
                                                                                            w
    Bibliometrics: Downloads (6 Weeks): 80, Downloads (12 Months): 569, Citation Count: 15   d
        Recently there has been significant development in the use of wavelet methods in various   w
        data mining processes. However, there has been written no comprehensive survey
        available on the topic. The goal of this is paper to fill the void. First, the paper ...

                                                                                            T
                                                                                            M
2   Proceedings of the international workshop on Workshop on multimedia information   G
◆   retrieval   A
    James Z. Wang, Nozha Boujemaa, Alberto Del Bimbo, Jia Li   (8
    September 2007 proceeding   w
    Publisher: ACM
    Additional Information: full citation, abstract

    Bibliometrics: Downloads (6 Weeks): n/a, Downloads (12 Months): n/a, Citation Count: 0   G
                                                                                            S
        It is our great pleasure to welcome you to the 9th ACM SIG Multimedia International   D
        Workshop on Multimedia Information Retrieval -- MIR'07. Like in the past years, this   T
        workshop is held in conjunction with the ACM Multimedia Conference. Continuing ...   R
                                                                                            S
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3   Proceedings of the international workshop on Workshop on mobile video
◆   Eckehard Steinbach, Chang Wen Chen   M
    September 2007 proceeding   C
    Publisher: ACM   G
    Additional Information: full citation, abstract   V
                                                                                            S
    Bibliometrics: Downloads (6 Weeks): n/a, Downloads (12 Months): n/a, Citation Count: 0   C
        It is our great pleasure to welcome you to the 1st ACM Workshop on Mobile Video --   X
        MV'07 which is held in conjunction with ACM Multimedia 2007 in the beautiful city of   w
        Augsburg. The intention of this workshop is to establish a premium forum for ...

4 Proceedings of the international workshop on Educational multimedia and multimedia
education

Gerald Friedland, Wolfgang Hürst, Lars Knipping, Max Mühlhäuser
September 2007 proceeding
Publisher: ACM

Additional Information: full citation, abstract

Bibliometrics: Downloads (6 Weeks): n/a,   Downloads (12 Months): n/a,   Citation Count: 0

Advances in multimedia capture, analysis and delivery, combined with the rapid adoption
of broadband communication, have resulted in multimedia systems that have advanced
traditional forms of education. Research in these areas has achieved impressive ...

5 Workshop on multimedia information retrieval on The many faces of multimedia
semantics

Farshad Fotouhi, William Grosky, Peter Stanchev
September 2007 proceeding
Publisher: ACM

Additional Information: full citation, abstract

Bibliometrics: Downloads (6 Weeks): n/a,   Downloads (12 Months): n/a,   Citation Count: 0

It is our great pleasure to welcome you to the *First ACM Workshop on The Many Faces of
Multimedia Semantics -- MS'07*. This symposium is the incarnation of the four Workshops
on Multimedia Semantics, organized by us, and held in Sofia (Bulgaria), ...

6 Proceedings of the 15th international conference on Multimedia

Rainer Lienhart, Anand R. Prasad, Alan Hanjalic, Sunghyun Choi, Brian Bailey, Nicu Sebe
September 2007 proceeding
Publisher: ACM

Additional Information: full citation, abstract

Bibliometrics: Downloads (6 Weeks): n/a,   Downloads (12 Months): n/a,   Citation Count: 0

Welcome to the Fifteenth ACM International Conference on Multimedia (ACM MM 2007),
held September 24-29, 2007 at University of Augsburg in the beautiful and historic city of
Augsburg, Bavaria, Germany. The city was founded 15 BC in the reign of Roman ...

7 Proceedings of the international workshop on Human-centered multimedia

Alejandro Jaimes, Nicu Sebe
September 2007 proceeding
Publisher: ACM

Additional Information: full citation, abstract

Bibliometrics: Downloads (6 Weeks): n/a,   Downloads (12 Months): n/a,   Citation Count: 0

It is our great pleasure to welcome you to the *2nd ACM International Workshop on
Human-centered Multimedia -- HCM'07*. This year's workshop continues its tradition of
being the premier forum for presentation of research results and experience reports ...

search with combination of color histograms
Terms used: search with combination of color histograms

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                                          ☐ Open results in a new window

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1 **A bootstrapping framework for annotating and retrieving WWW images**
   Huamin Feng, Rui Shi, Tat-Seng Chua
   October 2004 MULTIMEDIA '04: Proceedings of the 12th annual ACM international conference on
                  Multimedia
   Publisher: ACM
   Full text available: 📄 Pdf (243.08 KB)   Additional Information: full citation, abstract, references, cited by, index term

   Bibliometrics: Downloads (6 Weeks): 7,   Downloads (12 Months): 87,   Citation Count: 10

   Most current image retrieval systems and commercial search engines use mainly text annotation
   index and retrieve WWW images. This research explores the use of machine learning approache
   automatically annotate WWW images based on a predefined ...

   Keywords: WWW images, bootstrapping, co-training, image annotation

2 **Detection of video sequences using compact signatures**
   Justin Zobel, Timothy C. Hoad
   January 2006 ACM Transactions on Information Systems (TOIS), Volume 24 Issue 1
   Publisher: ACM
   Full text available: 📄 Pdf (725.90 KB)   Additional Information: full citation, abstract, references, index terms

   Bibliometrics: Downloads (6 Weeks): 37,   Downloads (12 Months): 258,   Citation Count: 0

   Digital representations are widely used for audiovisual content, enabling the creation of large or
   repositories of video, allowing access such as video on demand. However, the ease of copying a
   distribution of digital video makes piracy a growing ...

   Keywords: Video similarity detection, dynamic programming, local alignment

3 **Image retrieval: Ideas, influences, and trends of the new age**
   Ritendra Datta, Dhiraj Joshi, Jia Li, James Z. Wang
   April 2008   ACM Computing Surveys (CSUR), Volume 40 Issue 2
   Publisher: ACM
   Full text available: 📄 Pdf (2.81 MB)   Additional Information: full citation, abstract, references, index terms

   Bibliometrics: Downloads (6 Weeks): 482,   Downloads (12 Months): 1801,   Citation Count: 2

   We have witnessed great interest and a wealth of promise in content-based image retrieval as a
   emerging technology. While the last decade laid foundation to such promise, it also paved the w

a large number of new techniques and systems, got many ...

Keywords: Content-based image retrieval, annotation, learning, modeling, tagging

4   A gentle introduction to bilateral filtering and its applications
Sylvain Paris
August 2007 SIGGRAPH '07: ACM SIGGRAPH 2007 courses
Publisher: ACM
Full text available: Mov (100:20 MIN), Pdf (27.35 MB) Additional Information: full citation, abstract

Bibliometrics: Downloads (6 Weeks): 81,   Downloads (12 Months): 663,   Citation Count: 0
   - Image-based modeling and photo editing *Oh et al.* ACM SIGGRAPH conference (c) 2001, Assoc
   for Computing Machinery, Inc. Reprinted by permission. http://doi.acm.org/10.1145/383259.38
   Fast bilateral filtering for the display of high-dynamic-range ...

5   Dynamic spatial approximation trees
Gonzalo Navarro, Nora Reyes
June 2008   Journal of Experimental Algorithmics (JEA), Volume 12
Publisher: ACM
Full text available: Pdf (2.32 MB)   Additional Information: full citation, abstract, references, index terms

Bibliometrics: Downloads (6 Weeks): 54,   Downloads (12 Months): 259,   Citation Count: 0
   Metric space searching is an emerging technique to address the problem of efficient similarity
   searching in many applications, including multimedia databases and other repositories handling
   complex objects. Although promising, the metric space approach ...

   Keywords: Multimedia databases, similarity or proximity search, spatial and multidimensional s
   spatial approximation tree

6   Theory of keyblock-based image retrieval
Lei Zhu, Al Bing Rao, Aldong Zhang
April 2002   ACM Transactions on Information Systems (TOIS), Volume 20 Issue 2
Publisher: ACM
Full text available: Pdf (2.14 MB)   Additional Information: full citation, abstract, references, cited by, index term
                                                                 review
Bibliometrics: Downloads (6 Weeks): 25,   Downloads (12 Months): 146,   Citation Count: 5
   The success of text-based retrieval motivates us to investigate analogous techniques which can
   support the querying and browsing of image data. However, images differ significantly from text
   syntactically and semantically in their mode of representing ...

   Keywords: clustering, codebook, content-based image retrieval, keyblock

7   Partial query resolution for animation authoring
Phani S. Kotharu, B. Prabhakaran
January 2008 ACM Transactions on Multimedia Computing, Communications, and Applicatio
              (TOMCCAP), Volume 4 Issue 1
Publisher: ACM
Full text available: Pdf (1.47 MB)   Additional Information: full citation, abstract, references, index terms

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training self organizing map with color histogram
Terms used: <u>training</u> <u>self</u> <u>organizing</u> <u>map</u> with <u>color</u> <u>histogram</u>

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Display results |expanded form ▾| ☐ Open results in a new window   Try this search in The ACM

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1   Proceedings of the 2008 ACM symposium on Applied computing
Roger L. Wainwright, Hisham M. Haddad
March 2008 proceeding
Publisher: ACM
Additional Information: full citation, abstract

Bibliometrics: Downloads (6 Weeks): n/a,   Downloads (12 Months): n/a,   Citation Count: 0
Welcome to the 23rd Annual ACM Symposium on Applied Computing (SAC 2008). This
international event is dedicated to computer scientists, engineers, and practitioners seeking
innovative ideas in various areas of computer applications. This year, the conference ...

2   Image retrieval: Ideas, influences, and trends of the new age
Ritendra Datta, Dhiraj Joshi, Jia Li, James Z. Wang
April 2008 ACM Computing Surveys (CSUR),   Volume 40 Issue 2
Publisher: ACM
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paved the way for a large number of new techniques and systems, got many ...

Keywords: Content-based image retrieval, annotation, learning, modeling, tagging

3   Exploratory multilevel hot spot analysis: Australian taxation office case study
Denny, Graham J. Williams, Peter Christen
December 2007 AusDM '07: Proceedings of the sixth Australasian conference on Data
              mining and analytics - Volume 70,   Volume 70
Publisher: Australian Computer Society, Inc.
Full text available: 📄 Pdf (737.44 KB)   Additional Information: full citation, abstract, references

Bibliometrics: Downloads (6 Weeks): 2,   Downloads (12 Months): 9,   Citation Count: 0
Population based real-life datasets often contain smaller clusters of unusual sub-populations.
While these clusters, called 'hot spots', are small and sparse, they are usually of special
interest to an analyst. In this paper we introduce a visual drill-down ...

Keywords: cluster analysis, drill-down, imbalanced data, neural network, self-organizing maps, visualization

4   Intelligent patent analysis through the use of a neural network: experiment of multi-viewpoint analysis with the MultiSOM model
Jean-Charles Lamirel, Shadi Al Shehabi, Martial Hoffmann, Claire François
July 2003   Proceedings of the ACL-2003 workshop on Patent corpus processing - Volume 20,   Volume 20
Publisher: Association for Computational Linguistics
Full text available: Pdf (543.24 KB)   Additional Information: full citation, abstract, references, cited by

Bibliometrics: Downloads (6 Weeks): 4,   Downloads (12 Months): 100,   Citation Count: 4

The main area of this paper concerns the neural methods for mapping scientific and technical information (articles, patents) and for assisting a user in carrying out the complex process of analysing large quantities of such information. In the procedure ...

5   Face recognition: A literature survey
W. Zhao, R. Chellappa, P. J. Phillips, A. Rosenfeld
December 2003 ACM Computing Surveys (CSUR),   Volume 35 Issue 4
Publisher: ACM
Full text available: Pdf (4.28 MB)   Additional Information: full citation, abstract, references, cited by, index terms

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Publisher: ACM
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Clustering is the unsupervised classification of patterns (observations, data items, or feature vectors) into groups (clusters). The clustering problem has been addressed in many contexts and by researchers in many disciplines; this reflects its broad ...

Keywords: cluster analysis, clustering applications, exploratory data analysis, incremental clustering, similarity indices, unsupervised learning

7   Feature-based similarity search in 3D object databases
Benjamin Bustos, Daniel A. Keim, Dietmar Saupe, Tobias Schreck, Dejan V. Vranić
December 2005 ACM Computing Surveys (CSUR),   Volume 37 Issue 4
Publisher: ACM